MEITRACK Fuel Level Sensor User Guide

Applicable Model: MVT600/T1/MVT800/T333

Change History

File Name	MEITRACK Fuel Level Sensor User Guide	Created By	Owen Cheng
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Contents

1 Copyright and Disclaimer

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2 Product Functions and Specifications

2.1 Product Functions

- Measure vehicle's fuel level.
- Detect an alarm when the fuel level is too high.
- Detect an alarm when the fuel level is too low.

2.2 Specifications

| Item	Specifications
Sensor length	Standard length: 500 mm (Customize the length based on customers' requirements)
Diameter	16 mm
Output signal	4–20 mA, 0–5 V
Power supply	DC 12–40 V
Ambient temperature	-40°C to 70°C
Measurement accuracy	± 0.5 level (10 mm)
Packaging material	Stainless steel pipe

3 Main Device and Accessory

Main device: V-type fuel level sensor (A53 resistive fuel level sensor)
Accessory: None

4 View

Resistive fuel level sensor:

Black (signal output)
Brown (power +)
Blue (power -)

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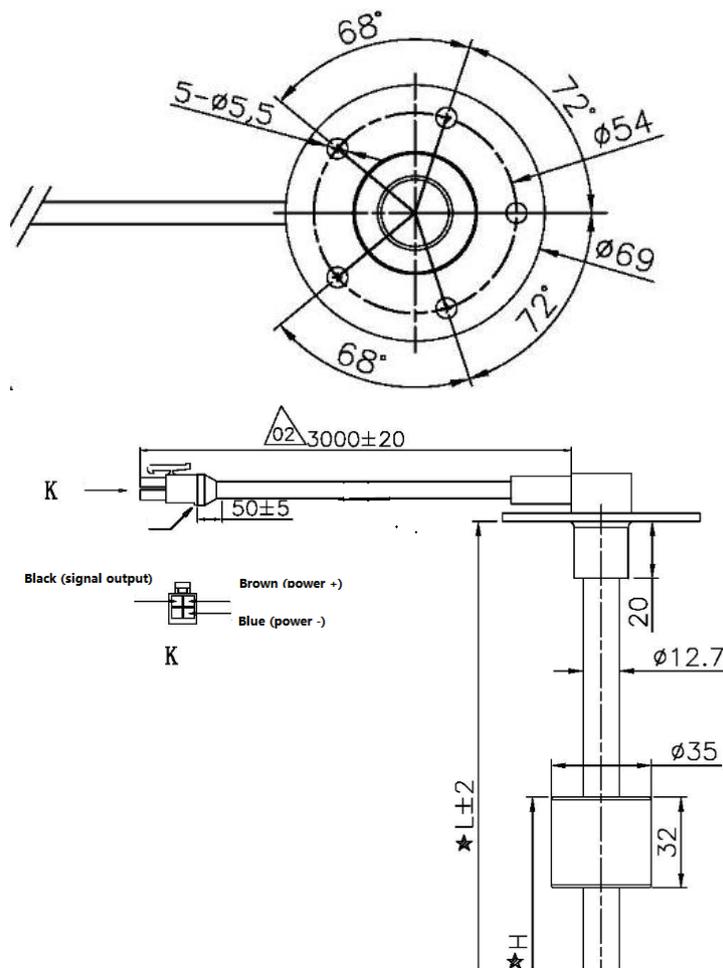
5 Occupied Resource

- T1: AD2 (fuel detection port)
- MVT600: AD2 (fuel detection port)
- MVT800: AD1 (fuel detection port)
- T333: AD2 (fuel detection port)

6 Installing and Configuring the Fuel Level Sensor

Install the fuel level sensor into the vehicle according to your requirements.

### 6.1 Connecting the Sensor to a Non-dedicated Port (MVT600/T1/T333)

When the fuel level sensor is connected to the MVT600/T1/T333 with AD1, cut the white plug at the end of the fuel level sensor and connect the sensor to the tracker according to the following cabling:

This section only uses the T1 as an example:

fuel sensor	to	T1
Red	⟶	power cable(red)
Black	⟶	AD cable(blue)
blue	⟶	GND (black)

6.2 Adding the Sensor to MS03 (MVT600/T1/T333)

1. Add the MVT600/T1/T333 to the MS03 platform, and connect the fuel level sensor to the tracker.
2. On the MS03 platform, choose **Management** > **Customize**.
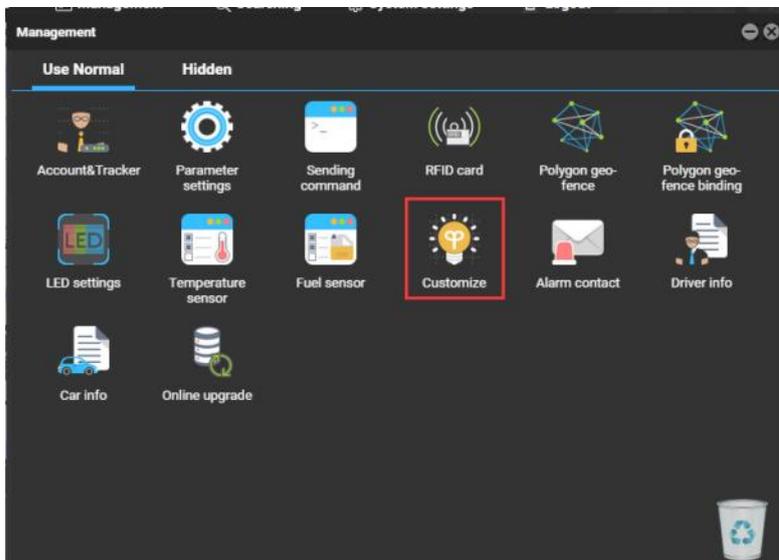
3. On the **Customize a sensor** tab page, click [+]. On the **Add a customized sensor** window that is displayed, specify **Tracker**, **Customize name**, **Formula**, and **Display type**, and click **Submit**.

The calculation formula of the fuel level sensor is as follows:

MVT600/T1/T333: (AD1 x 3.3 x 2)/4096/5

6.3 Connecting the Sensor to the Dedicated Port (MVT600/T1/MVT800/T333)

Connect the fuel level sensor to the dedicated port of MVT600/T1/MVT800/T333 as follows:
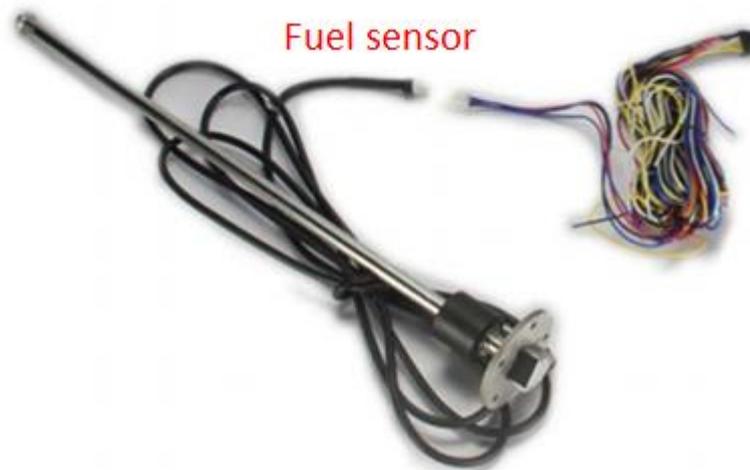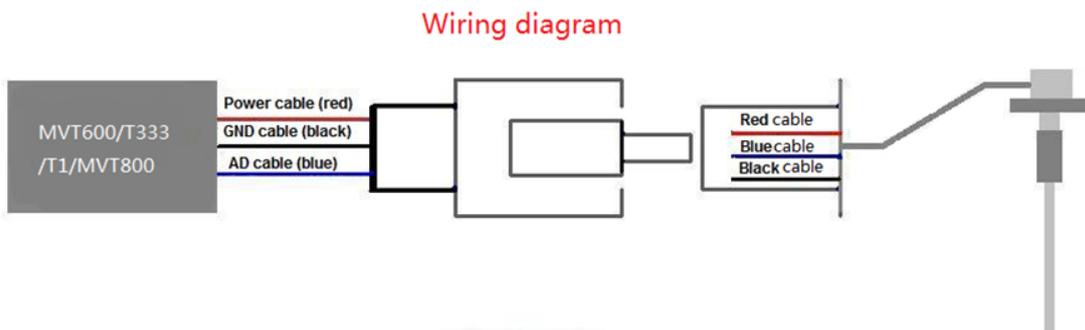
Note: The fuel detection port is a dedicated fuel level sensor port. When a fuel level sensor is connected to the port, no formula is required on MS03. If not, a formula is required.

6.4 Adding the Sensor to MS03 (MVT600/T1/MVT800/T333)

1. Add the T1/MVT600/MVT800/T333 to the MS03 platform, and connect the fuel level sensor to the tracker.

2. On the MS03 platform, choose **Management** > **Fuel sensor**.
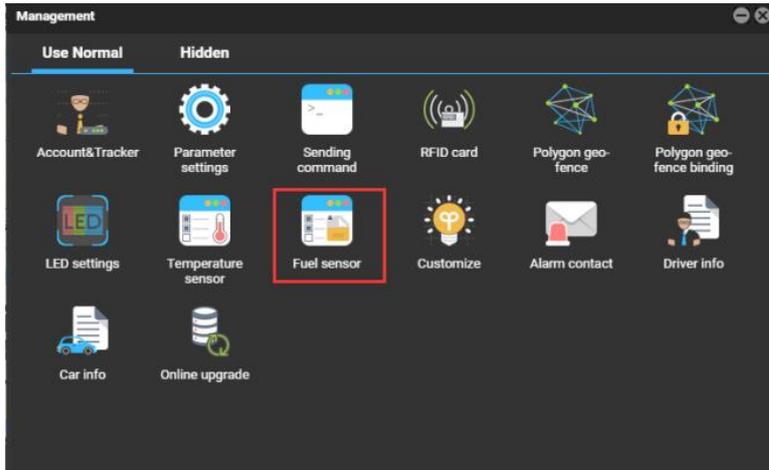
3. On the **Fuel sensor** window that is displayed, click [+]. On the **Add a fuel sensor** window, specify **Tracker name**, **Fuel sensor**, **Low fuel percentage**, and **Full fuel percentage**, and click **Submit**.
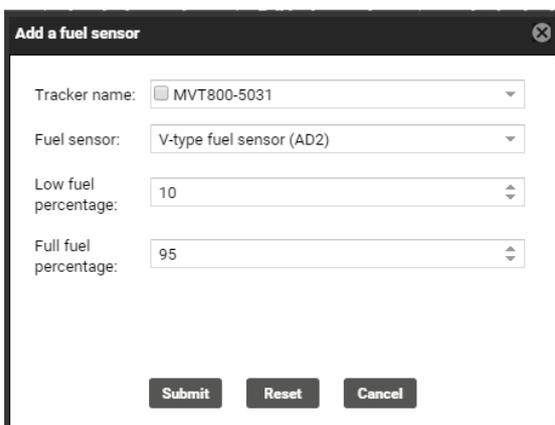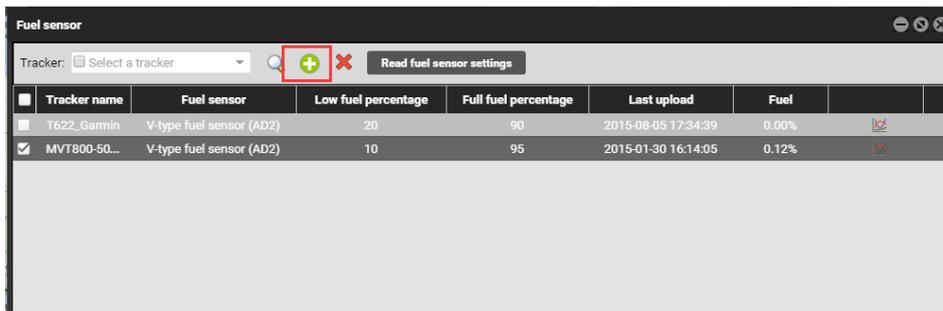
Note: There are three types of fuel level sensors: C-type (Capacitive), R-type (Resistive) and V-type (Voltage). Parameter **None** indicates that no fuel level sensor is used. (C-type and R-type fuel level sensors are V-type fuel level sensors.)

4. On the **Fuel sensor** window, double-click a sensor to modify parameters **Fuel sensor**, **Low fuel percentage**, and **Full fuel percentage** as required.

Note: When the fuel detection port of the MVT600/T1/MVT800/T333 is connected to the fuel level sensor, no formula is required on MS03. When the sensor detects that the fuel is lower than the lower limit or is higher than the upper limit, an alarm will be generated.

7 Querying Reports

7.1 Historical Data

1. On the MS03, choose **Reports**.
2. On the **Reports** window, select **Historical data** from **Use Normal**. The **Historical data** window is displayed.
3. Select a tracker, set the query time, and click [🔍]. The results will be displayed, as shown in the following figure.
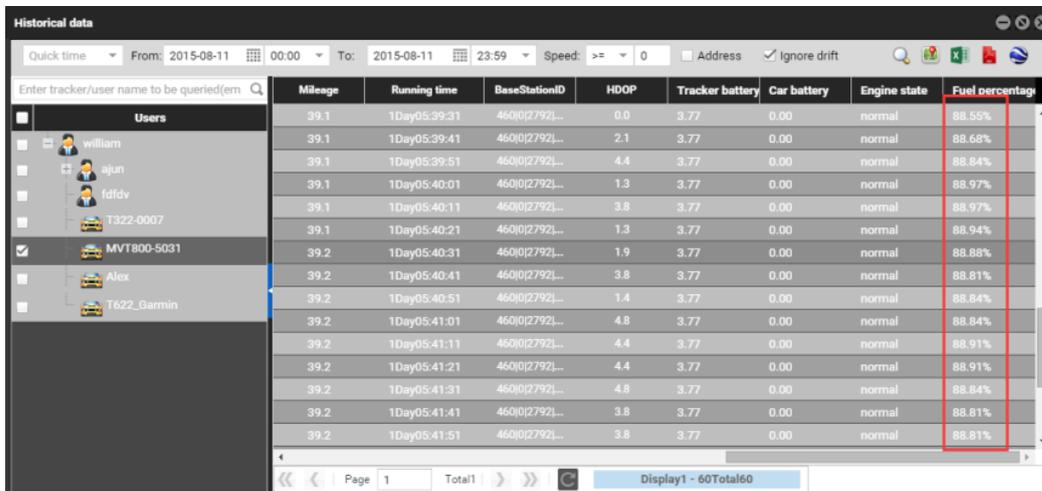
7.2 Sensor Report

1. On the **Reports** window, choose **Sensor report** from **Use Normal**. The **Sensor report** window is displayed.
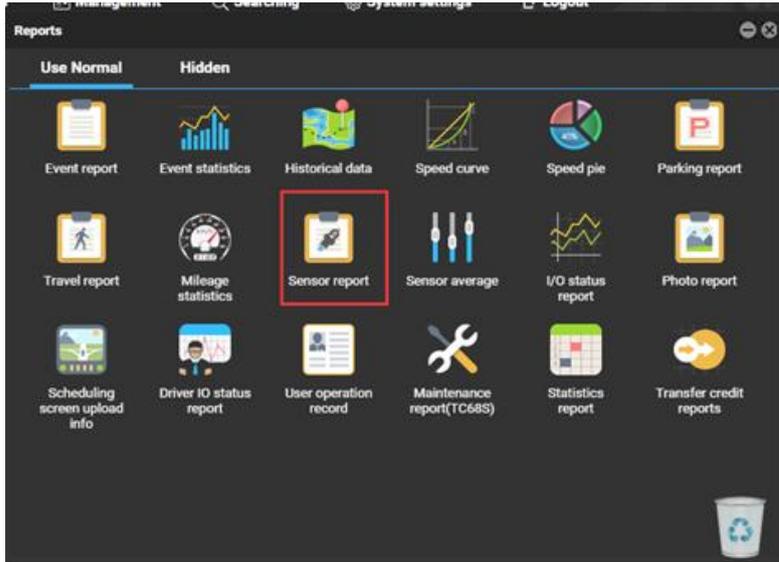
2.   Select a tracker and sensor, set the query time, and click ⌕ . The results will be displayed, as shown in the following figure.
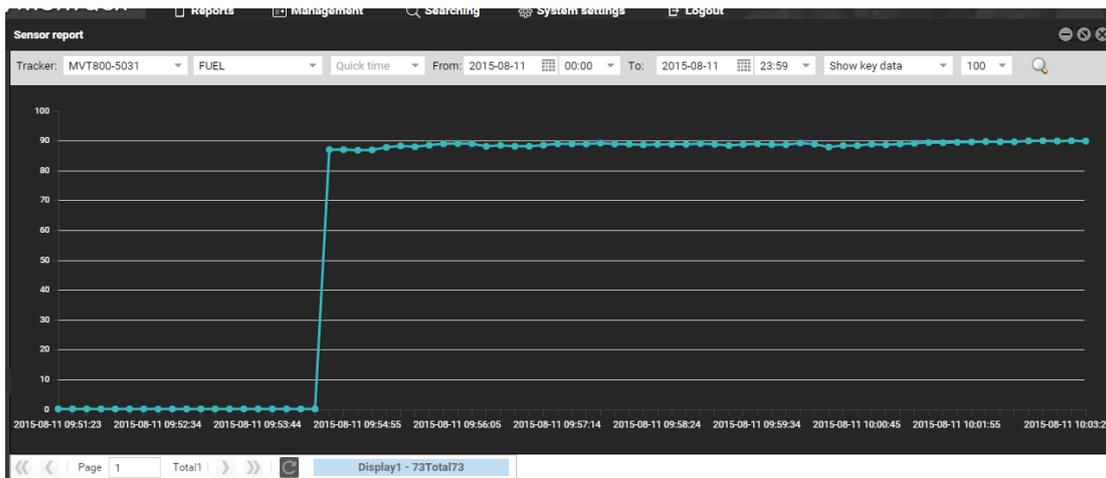
If you have any questions, do not hesitate to email us at info@meitrack.com.